

PATNO IS 5948525

DATE: NOVEMBER 19, 2002
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Your search request is:
PATNO IS 5948525

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
o DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
o MODIFY your search request, press the M key (for MODIFY) and then the ENTER
key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

5948525 , September 7, 1999 , Biaxially stretched polyester film for forming
ntainer and method of producing the film , Kimura, Masahiro, Shiga, JPX;
kahashi, Kohzo, Shiga, JPX; Kojima, Hiroji, Osaka, JPX; Abe, Koichi, Kyoto,
X, 00983054 (00),Toray Industries, Inc., JPX

RE TERMS: film, particle, polyester, resistance, acid, sup, ethylene,
rephthalate, formability, taste ...

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5948525

<=1> GET 1st DRAWING SHEET OF 2

September 7, 1999

Biaxially stretched polyester film for forming container and
method of producing the film

ISSUE: May 31, 2001 - Reissue Application filed May 31, 2001 (O.G. Nov. 27,
01) Ex. Gp.: 1711; Re. S.N. 09/870,591 November 27, 2001

RT-CORRECTION: October 9, 2001, a Certificate of Correction was issued for
is patent

PL-NO: 00983054 (00)

LED-DATE: January 26, 1998

ANTED-DATE: September 7, 1999

ORE TERMS: film, particle, polyester, resistance, acid, sup, ethylene,
rephthalate, formability, taste ...

GLISH-ABST:

A biaxially stretched polyester film for forming a container, characterized
/ being formed of a polyester substantially consisting of an ethylene
rephthalate unit and an ethylene naphthalate unit, the refractive index in the
irection of thickness of the film being 1.5 or greater. This film is not only
xcellent in the formability during formation into cans or the like, but has
xcellent properties in taste property, particularly, the taste property after
ne retorting, and may be suitably used for containers produced by forming
rocess and, particularly, for metallic cans.

48525 OR 5,948,525

ur search request has found no CASES.

edit the above request, use the arrow keys. Be sure to move the cursor
the end of the request before you enter it.

enter a new search request, type it and press the ENTER key.

at you enter will be Search Level 1.

or further explanation, press the H key (for HELP) and then the ENTER key.

Current session 19/11/2002

..FILE / ..INFO / ..GUIDE

Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 1,41
 The cost estimation below is based on Questel's
 standard price list

Estimated cost :	1.22	USD
Cost estimated for the last database search :	1.22	USD
Estimated total session cost :	1.22	USD

Selected file: PLUSPAT

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 Comprehensive Worldwide Patents database
 New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
 Last update of file: 2002/11/13 (YYYY/MM/DD) 2002-45/UP (basic update)

Search statement 1

Query/Command : US5948525/PN**** SS 1: Results 1**

Search statement 2

Query/Command : PRT

1 / 1 PLUSPAT - ©QUESTEL-ORBIT		
PN	-	US5948525 A 19990907 [US5948525]
STG	-	(A) United States patent
TI	-	(A) Biaxially stretched polyester film for forming container and method of producing the film
PA	-	(A) TORAY INDUSTRIES (JP)
IN	-	(A) KIMURA MASAHIRO (JP); TAKAHASHI KOHZO (JP); KOJIMA HIROJI (JP); ABE KOICHI (JP)
IC	-	(A) B32B-007/12 C08F-020/00 C08G-063/02

Questel·Orbit QWEB

AP	-	US98305498 19980126 [1998US-0983054]
PR	-	JP12151996 19960516 [1996JP-0121519] JP22901896 19960829 [1996JP-0229018] JP2248997 19970205 [1997JP-0022489] WOJP9701630 19970515 [1997WO-JP01630]
EC	-	C08J-005/18 C08L-067:02
PCL	-	ORIGINAL (O) : 428339000; CROSS-REFERENCE (X) : 428035700 428333000 428338000 524731000 525444000 528275000 528298000 528302000 528308000 528308600 528502000B
DT	-	Basic (replaces original non EP official language basic.)

Query/Command : PRT FULL NONSTOP LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT		
PN	-	US5948525 A 19990907 [US5948525]
TI	-	(A) Biaxially stretched polyester film for forming container and method of producing the film
PA	-	(A) TORAY INDUSTRIES (JP)
IN	-	(A) KIMURA MASAHIRO (JP); TAKAHASHI KOHZO (JP); KOJIMA HIROJI (JP); ABE KOICHI (JP)
AP	-	US98305498 19980126 [1998US-0983054]
PR	-	JP12151996 19960516 [1996JP-0121519] JP22901896 19960829 [1996JP-0229018] JP2248997 19970205 [1997JP-0022489] WOJP9701630 19970515 [1997WO-JP01630]
IC	-	(A) B32B-007/12 C08F-020/00 C08G-063/02
EC	-	C08J-005/18 C08L-067:02
PCL	-	ORIGINAL (O) : 428339000; CROSS-REFERENCE (X) : 428035700 428333000 428338000 524731000 525444000 528275000 528298000 528302000 528308000 528308600 528502000B
DT	-	Basic (replaces original non EP official language basic.)
CT	-	US3683060; US5106681; US5337174; US5698309; US5783120
STG	-	(A) United States patent
AB	-	A biaxially stretched polyester film for forming a container, characterized by being formed of a polyester substantially consisting of an ethyleneterephthalate unit and an ethylene naphthalate unit, the refractive index in the direction of thickness of the film being 1.5 or greater. This film is not only excellent in the formability during formation into cans or the like, but has excellent properties in taste property, particularly, the taste property after the retorting, and may be suitably used for containers produced by forming process and, particularly, for metallic cans.
1 / 1 LGST - ©LEGSTAT		

Questel·Orbit QWEB

PN	-	US 5948525 [US5948525]
AP	-	US 983054/98 19980126 [1998US-0983054]
DT	-	US-P
ACT	-	<p>19980126 US/AE-A APPLICATION DATA (PATENT) US 983054/98 19980126 [1998US-0983054]</p> <p>19980126 US/AS02 ASSIGNMENT OF ASSIGNOR'S INTEREST TORAY INDUSTRIES, INC. 2-1, NIHONBASHI MUROMACHI 2-CHOME CHUO-KU, TOKYO 103, JAP * KIMURA, MASAHIRO : 19980114; TAKAHASHI, KOHZO : 19980114; KOJIMA, HIROJI : 19980114; ABE, KOICHI : 19980114</p> <p>19990907 US/A PATENT</p> <p>20010417 US/CC CERTIFICATE OF CORRECTION</p> <p>20011009 US/CC CERTIFICATE OF CORRECTION</p> <p>20011127 US/RF REISSUE APPLICATION FILED 20010531</p>
UP	-	2001-49
1 / 1 CRXX - ©CLAIMS/RRX		
PN	-	5,948,525 A 19990907 [US5948525]
PA	-	Toray Industries Inc JP
ACT	-	<p>20010417 CERTIFICATE OF CORRECTION</p> <p>20010531 REISSUE REQUESTED ISSUE DATE OF O.G.: 20011127 REISSUE REQUEST NUMBER: 09/870591 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1711</p> <p>Reissue Patent Number:</p> <p>20011009 CERTIFICATE OF CORRECTION</p>

Questel·Orbit QWEB

1 / 2 PAST - ©Thomson Derwent

AN	-	200141-000285
PN	-	5948525 A [US5948525]
OG	-	2001-10-09
ACT	-	CERTIFICATE OF CORRECTION

2 / 2 PAST - ©Thomson Derwent

AN	-	200116-000821
PN	-	5948525 A [US5948525]
OG	-	2001-04-17
ACT	-	CERTIFICATE OF CORRECTION

Query/Command : FILE INPADOC

PLUSPAT - Time in minutes : 0,41
The cost estimation below is based on Questel's standard price list

Estimated cost :	0.90	USD
Records displayed and billed :	2	
Estimated cost :	1.75	USD
Cost estimated for the last database search :	2.65	USD
Estimated total session cost :	3.87	USD

LGST - Time in minutes : 0,06
The cost estimation below is based on Questel's standard price list

Estimated cost :	0.06	USD
Records displayed and billed :	1	
Estimated cost :	0.57	USD
Cost estimated for the last database search :	0.63	USD
Estimated total session cost :	4.50	USD

CRXX - Time in minutes : 0,10
The cost estimation below is based on Questel's standard price list

Estimated cost :	0.15	USD
Records displayed and billed :	1	
Estimated cost :	5.00	USD
Cost estimated for the last database search :	5.15	USD
Estimated total session cost :	9.65	USD

PAST - Time in minutes : 0,18
The cost estimation below is based on Questel's standard price list

Estimated cost :	0.35	USD
Records displayed and billed :	2	

Questel·Orbit QWEB

Estimated cost : 11.22 USD
 Cost estimated for the last database search : 11.57 USD
 Estimated total session cost : 21.22 USD

LITA - Time in minutes : 0,02
 The cost estimation below is based on Questel's
 standard price list

Estimated cost : 0.03 USD
 Cost estimated for the last database search : 0.03 USD
 Estimated total session cost : 21.25 USD

Selected file: INPADOC

You are now connected to INPADOC
 Covers 1968/1973 thru weekly updates (2002-46)
 For information on content, (..)INFO INPD.

Search statement 1

Query/Command : FAM US5948525/PN

1 Patent Groups

** SS 1: Results 9

Search statement 2

Query/Command : FAMSTATE NONSTOP

1 / 9 INPADOC - ©INPADOC		
PN	-	CA 2226933 AA 19971120 [CA2226933]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR FORMING CONTAINER AND METHOD OF PRODUCING THE FILM
LA	-	ENG
IN	-	KIMURA MASAHIRO [JP]; ABE KOICHI [JP]; KOJIMA HIROJI [JP]; TAKAHASHI KOHZO [JP]
PA	-	TORAY INDUSTRIES [JP]
AP	-	CA 2226933/97-A 19970515 [1997CA-2226933]
PR	-	JP 121519/96-A 19960516 [1996JP-0121519] JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; B29C-055/12

1 / 1 LEGALI - ©LEGSTAT		
PN	-	CA 2226933 [CA2226933]
DT	-	CA-P
ACTE	-	19980115 CA/REFW-P CORRESPONDS TO PCT APPLICATION <WO 9743332> [WO9743332]
UP	-	1998-31
2 / 9 INPADOC - ©INPADOC		
PN	-	CN 1197465 A 19981028 [CN1197465]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR CONTAINER MOLDING AND METHOD OF MFG. THE SAME
IN	-	MASAHIRO KIMURA [JP]; KOHZO TAKAHASHI [JP]; HIROJI KOJIMA [JP]
PA	-	TORAY INDUSTRIES [JP]
AP	-	CN 97190889/97-A 19970515 [1997CN-0190889]
PR	-	JP 121519/96-A 19960516 [1996JP-0121519] JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; B29C-055/12; B32B-015/08
3 / 9 INPADOC - ©INPADOC		
PN	-	EP 839854 A4 20000816 [EP-839854]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR CONTAINER MOLDING AND METHOD OF MANUFACTURING THE SAME
LA	-	ENG
IN	-	KIMURA MASAHIRO [JP]; TAKAHASHI KOHZO [JP]; KOJIMA HIROJI [JP]; ABE KOICHI [JP]
PA	-	TORAY INDUSTRIES [JP]
AP	-	EP 97922055/97-A 19970515 [1997EP-0922055]
PR	-	WO 9701630/97(JP)-W 19970515 [1997WO-JP01630] JP 121519/96-A 19960516 [1996JP-0121519] JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; C08L-067/02; B29C-055/12; B32B-015/08
DS	-	DE* FR* GB* IT* NL*
1 / 1 LEGALI - ©LEGSTAT		
PN	-	EP 839854 [EP-839854]

AP	-	EP 97922055/97 19970515 [1997EP-0922055]
DT	-	EP-P
ACTE	-	<p>19970515 EP/AE-A EP-APPLICATION EP 97922055/97 19970515 [1997EP-0922055]</p> <p>19980506 EP/AK-A1 [+] DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: DE FR GB IT NL</p> <p>19980506 EP/A1 [+] PUBLICATION OF APPLICATION WITH SEARCH REPORT</p> <p>19980708 EP/17P [+] REQUEST FOR EXAMINATION FILED 980511</p> <p>20000816 EP/AK-A4 [+] DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: DE FR GB IT NL</p> <p>20000816 EP/A4 [+] SUPPLEMENTARY SEARCH REPORT 20000630</p> <p>20000816 EP/RIC1 CLASSIFICATION (CORRECTION) 7C 08J 5/18 A, 7C 08L 67/02 B, 7B 29C 55/12 B, 7B 32B 15/08 B</p> <p>20001206 EP/17Q [+] FIRST EXAMINATION REPORT 20001024</p>
UP	-	2000-49
4 / 9 INPADOC - ©INPADOC		
PN	-	EP 839854 A1 19980506 [EP-839854]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR CONTAINER MOLDING AND METHOD OF MANUFACTURING THE SAME
LA	-	ENG
IN	-	KIMURA MASAHIRO [JP]; TAKAHASHI KOHZO [JP]; KOJIMA HIROJI [JP]; ABE KOICHI [JP]
PA	-	TORAY INDUSTRIES [JP]
AP	-	EP 97922055/97-A 19970515 [1997EP-0922055]
PR	-	WO 9701630/97(JP)-W 19970515 [1997WO-JP01630] JP 121519/96-A 19960516 [1996JP-0121519]

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		JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; B29C-055/12; B32B-015/08
DS	-	DE* FR* GB* IT* NL*
1 / 1 LEGALI - ©LEGSTAT		
PN	-	EP 839854 [EP-839854]
AP	-	EP 97922055/97 19970515 [1997EP-0922055]
DT	-	EP-P
ACTE	-	<p>19970515 EP/AE-A EP-APPLICATION EP 97922055/97 19970515 [1997EP-0922055]</p> <p>19980506 EP/AK-A1 [+] DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: DE FR GB IT NL</p> <p>19980506 EP/A1 [+] PUBLICATION OF APPLICATION WITH SEARCH REPORT</p> <p>19980708 EP/17P [+] REQUEST FOR EXAMINATION FILED 980511</p> <p>20000816 EP/AK-A4 [+] DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: DE FR GB IT NL</p> <p>20000816 EP/A4 [+] SUPPLEMENTARY SEARCH REPORT 20000630</p> <p>20000816 EP/RIC1 CLASSIFICATION (CORRECTION) 7C 08J 5/18 A, 7C 08L 67/02 B, 7B 29C 55/12 B, 7B 32B 15/08 B</p> <p>20001206 EP/17Q [+] FIRST EXAMINATION REPORT 20001024</p>
UP	-	2000-49
5 / 9 INPADOC - ©INPADOC		
PN	-	JP 9302113 A2 19971125 [JP09302113]

TI	-	BIAXIALLY ORIENTED POLYESTER FILM FOR MOLDING CONTAINER
IN	-	KIMURA MASAHIRO; TAKAHASHI KOZO; ABE KOICHI
PA	-	TORAY INDUSTRIES
AP	-	JP 121519/96-A 19960516 [1996JP-0121519]
PR	-	JP 121519/96-A 19960516 [1996JP-0121519]
IC	-	C08J-005/18; B29C-055/12; B32B-015/08; B21D-022/20; B29K-067/00; B29L-007/00; C08L-067/02

6/9 INPADOC - ©INPADOC

PN	-	JP 10120803 A2 19980512 [JP10120803]
TI	-	BIAXIALLY ORIENTED POLYESTER FILM FOR FORMING CONTAINER
IN	-	KIMURA MASAHIRO; TAKAHASHI KOZO; KOJIMA HIROJI
PA	-	TORAY INDUSTRIES
AP	-	JP 234513/97-A 19970829 [1997JP-0234513]
PR	-	JP 234513/97-A 19970829 [1997JP-0234513] JP 229018/96-A 19960829 [1996JP-0229018]
IC	-	C08J-005/18; B29C-051/08; B29C-055/12; B32B-015/08; C08K-003/34; C08K-007/16; C08L-067/02; A23L-003/00; B29K-067/00; B29K-105/16; B29L-007/00

7/9 INPADOC - ©INPADOC

PN	-	JP 10279708 A2 19981020 [JP10279708]
TI	-	BIAXIALLY ORIENTED POLYESTER FILM FOR FORMING CONTAINER AND ITS PRODUCTION
IN	-	KIMURA MASAHIRO; TAKAHASHI KOZO; KOJIMA HIROJI
PA	-	TORAY INDUSTRIES
AP	-	JP 22391/98-A 19980203 [1998JP-0022391]
PR	-	JP 22391/98-A 19980203 [1998JP-0022391] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; B29C-055/12; B29D-007/01; B32B-015/08; C08G-063/183; C08G-063/189; C08K-007/16; C08L-067/03; B29K-067/00; B29L-007/00; C08L-067/02

8/9 INPADOC - ©INPADOC

PN	-	US 5948525 A 19990907 [US5948525]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR FORMING CONTAINER AND METHOD OF PRODUCING THE FILM
IN	-	KIMURA MASAHIRO [JP]; TAKAHASHI KOHZO [JP]; KOJIMA HIROJI [JP]; ABE KOICHI [JP]

Questel-Orbit QWEB

PA	-	TORAY INDUSTRIES [JP]
AP	-	US 983054/98-A 19980126 [1998US-0983054]
PR	-	JP 121519/96-A 19960516 [1996JP-0121519] JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489] WO 9701630/97(JP)-W 19970515 [1997WO-JP01630]
IC	-	B32B-007/12; C08F-020/00; C08G-063/02
1 / 1 LEGALI - ©LEGSTAT		
PN	-	US 5948525 [US5948525]
AP	-	US 983054/98 19980126 [1998US-0983054]
DT	-	US-P
ACTE	-	19980126 US/AE-A APPLICATION DATA (PATENT) US 983054/98 19980126 [1998US-0983054] 19980126 US/AS02 ASSIGNMENT OF ASSIGNOR'S INTEREST TORAY INDUSTRIES, INC. 2-1, NIHONBASHI MUROMACHI 2-CHOME CHUO-KU, TOKYO 103, JAP * KIMURA, MASAHIRO : 19980114; TAKAHASHI, KOHZO : 19980114; KOJIMA, HIROJI : 19980114; ABE, KOICHI : 19980114 19990907 US/A PATENT 20010417 US/CC CERTIFICATE OF CORRECTION 20011009 US/CC CERTIFICATE OF CORRECTION 20011127 US/RF REISSUE APPLICATION FILED 20010531
UP	-	2001-49
9 / 9 INPADOC - ©INPADOC		
PN	-	WO 9743332 A1 19971120 [WO9743332]
TI	-	BIAXIALLY STRETCHED POLYESTER FILM FOR CONTAINER MOLDING AND METHOD OF MANUFACTURING THE SAME
LA	-	JAP
IN	-	KIMURA MASAHIRO [JP]; TAKAHASHI KOHZO [JP]; KOJIMA HIROJI [JP]; ABE KOICHI [JP]

PA	-	TORAY INDUSTRIES [JP]; KIMURA MASAHIRO [JP]; TAKAHASHI KOHZO [JP]; KOJIMA HIROJI [JP]; ABE KOICHI [JP]
AP	-	WO 9701630/97(JP)-A 19970515 [1997WO-JP01630]
PR	-	JP 121519/96-A 19960516 [1996JP-0121519] JP 229018/96-A 19960829 [1996JP-0229018] JP 22489/97-A 19970205 [1997JP-0022489]
IC	-	C08J-005/18; B29C-055/12; B32B-015/08
DS	-	CA* CN* KR* US* AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

1 / 2 LEGALI - ©LEGSTAT

PN	-	CA 2226933 [CA2226933]
DT	-	CA-P
ACTE	-	19980115 CA/REFW-P CORRESPONDS TO PCT APPLICATION <WO 9743332> [WO9743332]
UP	-	1998-31

2 / 2 LEGALI - ©LEGSTAT

PN	-	WO 9743332 [WO9743332]
AP	-	WO 9701630/97(JP) 19970515 [1997WO-JP01630]
DT	-	WO-P
ACTE	-	19970515 WO/AE-A APPLICATION DATA WO 9701630/97(JP) 19970515 [1997WO-JP01630] 19971120 WO/AK-A1 [+] DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT CA CN KR US 19971120 WO/AL-A1 [+] DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE 19971120 WO/A1 [+] PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT 19980115 WO/ENP-AA ENTRY INTO THE NATIONAL PHASE IN: <CA 2226933> 19980304 WO/121

Questel Orbit QWEB

		EP: PCT APP. ART. 158 (1)
UP	-	1999-13